

MOLCHANOVA, N., dotsent; SHOROKHOVA, N., assistant; YAVORSKIY, L.,  
zootekhnik

Raising meat-type chicks in Krasnoyarsk Territory. Zhivot-  
novodstvo 24 no.6:36-38 Je '62. (MIRA 17:3)

1. Krasnoyarskiy sel'skokhozyaystvennyy institut.

YAVORSKIY, M.P. [IAvors'kyi, M.P.]

Color reaction of 4-aminoantipyrine with medicinal preparations.  
Farmatsev. zhur. 16 no.4:31-35 '61. (MIRA 17:6)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta (zaveduyushchiy kafedroy prof. M.M. Turkevich  
(Turkevych, M.M.)).

YAVORISKIY, M.P. [Iavors'kiy, M.P.]

New photocolorimetric method for quantitative determination of meazaton  
in medicinal preparations. Farmatsev. zhur. 16 no.5:39-44 '61.  
(BIBL 17:10)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo in-  
stituta (zaveduyushchiy kafedroy - prof. N.M. Turkevich).

YAVORSKIY, N.A.; POLYARUSH, Ye.F.; POGULYAUKO, N.M.

X-ray diagnosis of fallible anastomoses following resection of the  
stomach. Klin. khir. no.3:75-77 '65. (MIRA 18:8)

1. Rentgenologicheskoye otdeleniye (zav. - N.A.Yavorskiy) Vin-  
nitskoy oblastnoy bol'nitsy imeni Pirogova (nauchnyy rukovoditel' -  
dotsent B.Z.Sukhorukov) i kafedra fakul'tetskoy khirurgii (zav. -  
prof. I.M.Grabchenko) Vinnitskogo meditsinskogo instituta.

YAVORSKIY N. B.

12-15  
C/031/59/000/22/008/026  
F029/F001

AUTHOR: N. B. Yavorsky

TITLE: Atom Coordinates of a Complex Structure by Direct Determination

PERIODICAL: K'o Hsueh T'ung Pao, 1959, Nr 22, pp 759-760

ABSTRACT: System of equation:

$$|F(hkl)|^2 = \sum_{n, m=1}^N f_n \cdot f_m \exp\{2\pi i [h(x_n - x_m) + k(y_n - y_m) + l(z_n - z_m)]\} \quad (1)$$

where  $|F(hkl)|$  -----amplitude of structure  
 $f_n, f_m$  -----scattering factor for the atom  
 $hkl$  -----Indices of radiation spot  
 $xyz$  -----atom coordinates in single cell crystal.

$(x_n - x_m)$ ,  $(y_n - y_m)$ , and  $(z_n - z_m)$  can be solved, and atom coordinates can be determined.

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11045

Atom Coordinates of a Complex Structure by Direct Determination (Cont.)  
C/031/59/000/22/008/026  
FO29/FO01

General method for solving eq. (1) is worked out by Ott and Avrami.

$$\text{let: } f_n = Z_n \hat{f}$$

$Z_n$  -- atomic no. of nth atom

$\hat{f}$  -- unit scattering amplitude of atom

thus results in:

$$\frac{F(hkl)}{\hat{f}} = \sum_{n=1}^N Z_n \exp[2\pi i(hx_n + ky_n + lz_n)] \quad (2)$$

Usually, difficulties are encountered in solving these equations. In determining the left hand side of eq. (2), all factors affecting the radiation strength must be used, but some of them cannot be determined correctly. Besides, the symbols and circular phase (with respect to structures without center of symmetry) are unknown.

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$$\text{If } |F| = 0 \quad (3)$$

Atom Coordinates of a Complex Structure by Direct Determination (Cont.)

C/031/59/000/22/008/026

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The value of  $A.F^2$  ( $A$  is the product for all strength factors) will be determined by experimental results. If  $A$  is not equal to zero, then

$$AF^2 = 0 \text{ and } F^2 = 0 \quad (4)$$

Under general condition:

$$F^2 = F.F^* = (a + ib)(a - ib)$$

hence

$$a + ib = a - ib = 0$$

$$a = b = 0 \quad (5)$$

Both the structural amplitude symbol and the circular phase are not included in equation (3). The structure amplitude in equation (3) includes atom scattering factor and the thermal factor. Atom scattering factors can be found in a handbook, or by utilizing the unit scattering factor for an atom given by Ott and Avrami. Thus:

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# Atom Coordinates of a Complex Structure by Direct Determination (Cont.)

C/031/59/000/22/008/026

F029/F001

$$\frac{F(hkl)}{\hat{f}} = \sum_{n=1}^N Z_n \exp[2\pi i(hx_n + ky_n + lz_n)] \approx 0 \quad (6)$$

The thermal factor being  $\exp\left[-B_n\left(\frac{\sin\theta}{\lambda}\right)^2\right]$

is generally substituted by

$$\exp\left[-B\left(\frac{\sin\theta}{\lambda}\right)^2\right]$$

Equation (6) is better than equation (2) for the following reasons:

1. Equation (6) will be used to determine the atom coordinates for any complex single cell crystal having any number of atoms, if and only if the number of independent variables (x, y, z) are not more than the number of equations derived from equation (6).
2. This is applicable to both the symmetrical and the non-symmetrical centered crystals.
3. Accurate computations for strength factors are not necessary.
4. The degree of equation (6) is determined by the indices hkl, while the degree for equation (2) is determined by N, the number of atoms in the single cell. There are six references.

Card 4/4



YAVORSKIY, N. I.

Transformations of thioglycolamides and their carbamoyl derivatives. N. M. Turkevich and N. P. Yavorskii (Lvov Med. Inst.). *Ukrain. Khim. Zhur.* 16, No. 6, 639-47 (1950) (Russian).—Amides of  $H_2NCOSCH_2CO_2H$  (I) and  $HSCl_2CO_2H$  are converted by  $PhSO_2Cl$  in alk. medium into amides of  $S(CH_2CO_2H)_2$ . Amides of I are reagents for  $Ag$  and  $Hg$  ions.  $H_2NCOSCH_2CONHPh$  (II) (2.1 g.) in 15 ml. aq. soln. of 1.6 g.  $NaOH$  filtered and the filtrate treated with 2.1 g.  $BzCl$  yielded 160%  $S(CH_2CONBzPh)_2$ , m. 145-6°. Similar reaction with  $PhSO_2Cl$  gave 90.3%  $S(CH_2CONHPh)_2$ , m. 155°, formed also in good yield (m. 160-2°) on heating I with  $BzH$  in  $EtOH$ .  $ClCH_2CO_2H$ ,  $p$ -phenetidine and  $Et_4CNS$  in  $MeOH$  gave 67%  $p$ - $H_2NCO_2CH_2CONHCH_2OEt$ , m. 179-7°. This (2.54 g.) in 15 ml. aq.  $NaOH$  (1.6 g.  $NaOH$ ), treated with 2.1 g.  $BzCl$  gave 95.5%  $p$ - $EtOC_6H_4CH_2CONBzPh$ , m. 145-6° (from  $EtOH$ ); similar reaction with  $PhSO_2Cl$  gave  $p$ - $EtOC_6H_4NHCO_2CH_2S$ , m. 181° (from  $EtOH$ ). Refluxing 12.6 g.  $ClCH_2CO_2H$ , 10.2 g.  $Et_4CNS$ , and 15.6 g.  $EtNHPh$  in  $MeOH$  6 hrs. gave 35%  $H_2NCOSCH_2CONBzPh$ , m. 110° (from  $EtOH$ ).  $2-C_6H_5NHCOCH_2SH$  refluxed 10 hrs. in  $C_6H_6$ , with 1.3 g.  $BzH$  gave  $(2-C_6H_5NHCOCH_2S)_2CHPh$ , m. 157-9°; the original amide treated with  $BzCl$  in aq.  $NaOH$ , as described above, yielded 160%  $(2-C_6H_5NHCOCH_2S)_2CHPh$ , m. 169-1°; a similar reaction with  $PhSO_2Cl$  gave  $(2-C_6H_5NHCOCH_2S)_2CHPh$ , m. 200°. The dithioglycolamides listed above gave yellow-brown or brown colors with ammoniacal solns. of  $CuSO_4$ ,  $AgNO_3$ ,  $HgCl_2$ , and nitroprusside. The  $Bz$  deriv. gave a white ppt. with ammoniacal  $AgNO_3$ .  
G. M. Kozolapoff

- YAVORSKIY, N.P.
1. TURKEVICH, N.M.; YAVORSKIY, N.P.
  2. USSR (600)
  4. Amides
  7. Transformations of thioglycol amides and their carbamyl derivatives, N.M. Turkevich, N.P. Yavorskiy, Ukr.khim.zhur. 16 no. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.

1 Soluble compounds of bismuth. VI. Structure of bismuth lactates. N. P. Yavorukh and N. M. Turkevich (Med. Inst., Lvov). *Ukrain. Khim. Zhur.* 18, 371-4 (1952); cf. *C.A.* 48, 5093i. — The water-sol. Bi lactate is really lactobismuthic acid (I).  $H[MeCHOHCO_2BiOH]$  (Telle, *C.A.* 3, 573); its stability as a complex is poor since with a variety of reagents ( $H_2S$ ,  $NH_3$ , alkalies, chromates, phosphates, iodides, and iodates) it yields ppts., while org. acids yield insol. org. Bi compounds. — Treatment of 35 g. moist freshly prepd.  $Bi(OH)_3$  with 10 ml.  $H_2O$  followed by 30 g.  $MeCH(OH)CO_2H$  and 5 vol.  $EtOH$  gave 26 g. colorless solid,  $C_4H_9O_5Bi$ , an anhydride lactate of Bi; it is generally insol. except for mineral acids; it forms a sol. complex with Na lactate. The same insol. substance forms on refluxing I in  $C_2H_5$  in the presence of  $PhNH_2$ , with azeotropic removal of  $H_2O$ ; it also forms on treatment of lactic acid in  $H_2O$  with  $Bi(OH)_3$  and keeping the mixture, after initial warming to  $55^\circ$  and filtration, for 7 days. Addn. of 10 g. Bi nitrate-tartrate to 24 g.  $MeCH(OH)CO_2H$  in 35 g.  $H_2O$  at the b.p. and refluxing 2 hrs. gave after filtration, while hot, 2.2 g. dilactobismutholactic acid,  $C_8H_{15}O_7Bi$ , which is insol. in  $H_2O$  and sol. in  $NH_4OH$  and alkalies; it forms sol. complexes with Na lactate and tartrate. G. M. Kosolapoff

YAVORSKIY, N. P.

Dissertation: "Research Into Antisyphilitic Bismuth Preparations." Cand Pharm  
Sci, Moscow Pharmaceutical Inst, Moscow, 28 Jun 54. (Meditsinskiy Rabotnik, Moscow,  
11 Jun 54)

SO: SUM 318, 23 Dec. 1954

*Yavorskiy, N.P.*  
USSR/Analytical Chemistry - Analysis of Organic Substances

G-3

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 8619

Author : Yavorskiy, N.P.

Inst : Not given

Title : A New Color Reaction of Antipyrine

Orig Pub : Aptech. delo, 1956, Vol 5, No 4, 40-41.

Abstract : For the identification of antipyrine, 0.5 ml of a 5% alcoholic solution of xanthydrol is added to a 1-2 mg sample of the test substance in a test tube, and the mixture is heated until solution is complete; 1-2 drops of HCl are added, the mixture is heated to boiling, and the appearance of a stable violet-reddish color is observed. A similar color reaction is obtained when 1-2 drops of  $H_2SO_4$ ,  $HNO_3$ , 25% phosphoric acid, or 1 ml glacial  $CH_3COOH$  are added in the place of HCl. The method makes possible the detection of 35 of antipyrine in 1 ml solution. The presence of pyramidon, phenacetine, aspirin, caffeine, luminal, and codeine does not interfere with the determination. When antipyrine is determined in mixtures, conc. HCl is used to acidify the solution.

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**CIA-RDP86-00513R001962320002-6"**

YAVORSKIY, H.P.

Quantitative determination of metrazole by refractometry. Apt.delo.  
6 no.5:69-71 S-O '57. (MIRA 10:11)

1. Iz kafedry farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta.

(REFRACTOMETRY) (METRAZOLE--ANALYSIS)

YAVORSKIY, N.P., kand.farmatsevticheskikh nauk

New color reactions to para-aminosalicylic acid (PAS). Apt delo 7  
no.1:44-45 Ja-F '58. (MIKA 11:3)

1. Iz Kafedry farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta.  
(SALICYLIC ACID)



AUTHOR: Yavorskiy, N. P.

75-13-2-20/27

TITLE: Color-Reactions of Phenols With Xanthyrol (Tsvetnyye reaktsii fenolov s ksantgidrolon)

PERIODICAL: Zhurnal Analiticheskoy Khimii, 1958, Vol. 13, Nr 2  
pp. 255-256 (USSR)

ABSTRACT: Xanthyrol is usually used as reagent on amides, urethanes and derivatives of barbituric acid (Reference 1). The reagent xanthyrol forms compounds with these compounds which can easily be purified and which have marked melting points. Xanthyrol can react also with mono- and diphenol (references 2,3) in which case colorless crystalline products of condensation are formed. This latter reaction is of no analytical importance because it takes place only very slowly and since it produces only very small yields which are difficult to be isolated and purified. The authors found that xanthyrol can react in alcoholic solution in the presence of mineral acids with phenolone by forming colored products of reaction. This color-reaction of the phenols with xanthyrol is more specific than the known color-reaction

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Color-Reactions of Phenols With Xanthydrol

75-13-2-20/27

with ferric chloride. Many phenol derivatives which produce colored reaction products with ferric chloride, do not react with xanthydrol.

The reagent was produced by the author by reduction of pure xanthone with sodium amalgam (Reference 4). The alcoholic solution of the reagent can be used also after 6 months. In order to carry out the proof-reaction on phenols, 2 to 3 mg of the sample are slightly heated with 0,5 ml of a 5% alcoholic solution of xanthydrol in order to dissolve phenol. Subsequently, some drops of hydrochloric acid are added and the mixture is boiled for some seconds; in which case an intense coloring takes place. A yellow coloring - which disappears however after the cooling down - takes place on the heating of a solution of xanthydrol with some hydrochloric acid. The coloration which takes place with heating of phenols with xanthydrol and hydrochloric acid, is - on the contrary - very stable. A decolorization does not take place, even after some days. The sensitiveness of the reaction increases intensely according to the decreasing  $pH$ -value of the mixture of reaction. A positive reaction with xanthydrol is produced

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Color-Reactions of Phenols With Xanthidrol

75-13-2-20/27

not only by unsubstituted phenols, but also by their derivatives with the following substituents: a) alkyl groups (cresols, thymol, carvacrol, eugenol, hexylresorcinol) b) methoxyl groups (guaiacol) c) ester-grouping (salicylic acid-methyl ester). Derivatives of phenols with the following substituents do not produce a color-reaction with xanthidrol: a) Acid residues (salicylic acid, gallic acid,  $\beta$ -naphthol-3,6-disulfonic acid, 3-acetamino-4-oxy-phenyl-arsonic-acid b) basic residues (p-aminophenol, adrenaline) c) Halides (tribromophenol) d) Nitro groups (o- and p-nitrophenol, 2,4-dinitrophenol, picric acid). There are 1 table and 4 references, 2 of which are Soviet.

ASSOCIATION: L'vovskiy gosudarstvennyy meditsinskiy institut (State Institute of Medicine, L'vov)

SUBMITTED: November 23, 1955

1. Phenols--Chemical reactions    2. Reagents--Performance

Card 3/3

YAVORSKIY, N.P.

Butadione; a brief survey. Apt.delo 8 no.1:93-95 Ja-F '59.  
(MIRA 12:2)  
1. Iz kafedry farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta.  
(PYRAZOLIDINEDIONE)

YAVORSKIY, N.P.; KOMARITSA, I.D.

New photolorimetric method for the quantitative determination of  
salsoline in medicinal mixtures. Apt.delo 8 no.5:72-75 S-0 '59.

(MIRA 13:1)

1. Iz kafedry farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta.

(SALSOLINE)

(COLORIMETRY)

YAVORSKIY, N.P.

Spectrophotometric method for the determination of resorcin  
in ointments. Med.prom. 13 no.6:41-43 Je '59. (MIRA 12:8)

1. L'vovskiy meditsinskiy institut.  
(RESORCINOL)

TURKEVICH, Nikolay Mikhaylovich [Turkevych, M.M.], prof., doktor  
farmats.nauk; JAVORSKIY, M.P. [Iavors'kyi, M.P.], red.;  
GITSHTEYN, G.D., tekhnred.

[Pharmaceutical chemistry] Farmatssevychna khimija. Kyiv,  
Derzh.med.vyd-vo URSR, 1961. 573 p. (MIRA 14:4)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

YAVORSKIY, N.P.

Specific reaction for butadione. Apt. delo 11 no, 2:47-48 Mr-Ap '62.  
(MIRA 15:5)

1. L'vovskiy meditsinskiy institut.  
(BUTADIONE)



YAVORSKIY, N.P. [IAvors'kyi, M.P.]

Color reaction of  $\alpha$ -dinitrobenzene with pharmaceutical preparations.  
Farmatsev. zhur. 17 no.5:9-12 '62. (MIRA 17:9)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo instituta  
(zaveduyushchiy kafedroy - prof. M.M.Turkevich [Turkevych, M.M.]).

YAVORSKIY, N.P. [Iavors'kyi, M.P.]; FEDUSIV, M.N. [Fedusiv, M.M.]

Photocolorimetric determination of phenol in hormonal  
preparations. Farmatsev. zhur. 18 no.4:34-39 '63.

(MIRA 17:7)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta (zav. kafedroy prof. M.M. Turkevich).

YAVORSKIY, N.P. [Iavors'kiy, M.P.]

New photolorimetric method for the quantitative determination  
of osarsol in drugs. Farmatsev.zhur. 17 no.4:13-17 '62.  
(MIRA 16:3)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta, zav. kafedroy prof. M.M. Turkevich.  
(COLORIMETRY) (ACETARSONE)  
(DRUGS--ADULTERATION AND ANALYSIS)

YAVORSKIY, N.P.

New photocolorimetric method for determining benzasins in  
drugs. Apt. delo 12 no.2:56-59 Mr~Ap '63. (MIRA 17:7)

1. L'vovskiy meditsinskiy institut.

YAVORSKIY, N.P.

Some new nitrogen-containing 4-derivatives of 1,2-diphenyl-3,5-diketopyrazolidine. Ukr.khim,zhur. 29 no.1:91-93 '63. (MIRA 16:5)

1. L'vovskiy meditsinskiy institut.  
(Pyrazolidine)

YAVORSKIY, N.P.

Quinones as reagents for the analysis of organic pharmaceutical preparations. Apt. delo 12 no.1:81-84 JA-P '64. (MIRA 17:4)

1. I'vcvskiy meditsinskiy institut.

YAVORSKIY, N.P. [Iavors'kiy, M.P.]; BABICH, Ye.M. [Babych, IE.M.]; KOREN'KOVA, E.P.

Photocolorimetric method for determining quinosol in some drugs.  
Farmatsev. zhur. 19 no.4:29-34 '64. (MIRA 17:11)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo inatituta (zaveduyushchiy kafedroy -- prof. M.M. Turkevich).

YAVORSKIY, N.P. [Iavors'kiy, M.P.]

Color reactions of sodium 1,2-naphthoquinone-4-sulfonate with drugs.  
Farmatsev.zhur. 20 no.1:29-33 '65.

(MIRA 18:10)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo  
instituta (zaveduyushchiy kafedroy prof. M.M.Turkevich).



YAVORSKIY, N.P.

New color reactions for detecting individual medicinal preparations.  
Apt.delo 14 no.2:48-50 Mr-Ap '65.

(MIRA 19:1)

1. L'vovskiy meditsinskiy institut. Submitted January 31, 1964.

S/089/61/011/005/014/017  
B102/B104

AUTHOR: Yavorskiy, P.

TITLE: Exposition of Czechoslovakian instruments and apparatus used  
in nuclear engineering

PERIODICAL: Atomnaya energiya, v. 11, no. 5, 1961, 465 - 467

TEXT: A brief account is given of a Czechoslovakian exposition held in June 1961 in Moscow at the Politekhnikheskiy muzey (Polytechnic Museum). The instruments and devices shown there may be divided into two groups: electronic devices and devices for use in laboratories where radioactive material is handled. The following devices are described in brief: automatic apparatus for measuring radioactive samples of the type NZQ-615, equipped with scintillation or Geiger counters, which is used for quick and accurate measurement of great numbers of hot samples; NaI(Tl), ZnS, plastics and liquid scintillators for gamma and particle counting; NaI(Tl) scintillators were produced with diameters of 140 mm, a size which ensures high resolution; universal electrometer of the type "Univel" for measuring

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Exposition of Czechoslovakian...

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electric charges, voltages or very low currents. It is designed as a dynamic instrument with a vibration membrane capacitor and can only be used in conjunction with an ionization chamber; several pocket dosimeters for radiation dose and intensity measurements; "soil-meter" of the type Sb 725 - Sb 500 for continuous measurement of the soil content in pulp pipes or for flow-rate control of other substances in pipelines. It is equipped with a Co<sup>60</sup> gamma source, an ionization chamber, and a dynamic electrometer; radiometrical instruments for geological prospecting, analysis and ore dressing, e.g., the gamma radiometer RSR-0.4 for sorting active material on a conveyer belt, or the gamma radiometer RAR-0.4 for quick analysis. Other types are KPR-0.2, RKS-0.5, PPR-0.1 ( $\beta, \gamma$ ), and SMZ-0.1 ( $\alpha$ ). An irradiation apparatus, "Cesioterax", for clinic therapy with Cs<sup>137</sup> of 200-curie activity. The surface dose rate does not exceed 8 mr/hr. "Khizotron" [Abstracter's note: Exact spelling unknown], a gamma irradiator for therapeutic purposes, with a Co<sup>60</sup> source of 1000 r/hr. "Betatron" is the name of an irradiator combined with an accelerator for industrial defectoscopic examinations; the particle energy can be varied between 3 and 15 Mev. Also a remote control desk (L2 101) was shown, which

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Exposition of Czechoslovakian...

S/089/61/011/005/014/017  
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is used for medical purposes. There are 3 figures.

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YAVORSKIY, P.K., inzh.; LINITSKIY, V.G., inzh.; ORLOVSKIY, S.I., inzh.;  
BERDICHEVSKIY, A.K.

Role of specific pressure and lubrication in the operation of  
traction chains and sprockets on mine conveyers. Vop. rud.  
transp. no.2:15-26 1957. (MIRA 14:4)

1. Khar'kovskiy zavod "Svet shakhtera" (for Berdichevskiy).  
(Conveying machinery--Testing)

YAVORSKIY, S., inzh.-tekhn.

[Nature]Priroda. Hollywood, Izd-vo "Russkaia kniga."  
Book 1. [Cosmogony and energetics. Real nature (summary)]  
Kosmogoniia i energetika. Real'naia priroda (kratkoe izlo-  
zhenie). n.d. 7 p. (MIRA 15:8)  
(Cosmogony)

YAVORSKIY, S. I.

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3

J. MeBr. hydrate. L. M. Koffman, S. I. Yavorskiy, and V. Yak. Plotnikov. Zhur. Priklad. Khim.  
28, 655-7 (1953). Shaking MeBr with  $H_2O$  at 0-4.5° yields  
MeBr hydrate, plates, having approx. the compn.  $MeBr \cdot$   
 $13H_2O$ . It decomp. at 10-15° and shows the following  
vapor pressures: at 5°, 7 mm.  $H_2O$ , 363 mm. hydrate; at  
10°, 9 and 661; at 13°, 11 and 909; at 15°, 13 and 1117;  
at 18°, 15 and 1245 mm., resp. The ternary point of co-  
existence of the hydrate, MeBr liquid and MeBr vapor is 14°  
at 1060 mm. pressure. G. M. Kosolapoff

MF

YAVORSKIY, S.I.

YAVORSKIY, S.I. --"The Systems NaI - NaIO<sub>3</sub> - H<sub>2</sub>O, KI - KIO<sub>3</sub> - H<sub>2</sub>O in the Preparation of Pure Iodine Salts." (Dissertations For Degrees In Science and Engineering Defended at USSR Higher Educational Institutions) (29) Min of Chemical Industry USSR, State Order of Labor Red Banner Inst of Applied Chemistry GIPKH, Yevpatoriya, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

\* For the Degree of Candidate in Chemical Sciences.



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**CIA-RDP86-00513R001962320002-6"**

ZALKIND, G.R.; YAVORSKIY, S.I.

Kinetics of iodine hydrolysis in chloride and bromide solutions.  
Izv.AN Turk.SSR.Ser.fiz.-tekhn., khim.i geol.nauk no.2:56-64 '62.  
(MIRA 15:4)

1. Institut khimii AN Turkmenskoy SSR.  
(Iodine) (Hydrolysis) (Chlorides) (Bromides)

YAVORSKIY, S.I.; TIMOFEYEVA, V.G.

Potentiometric method for determining the oxidability of natural  
formation waters. Zav.lab. 28 no.8:929-930 '62. (MIRA 15:11)

1. Gosudarstvennyy institut prikladnoy khimii.  
(Water, Underground) (Potentiometric analysis) (Oxidation)

ZALKIND, G.R.; YAVORSKIY, S.I.

Kinetics of iodine hydrolysis in the presence of sulfata, nitrate  
and bicarbonate ions. Izv.AN Turk.SSR.Ser.fiz.-tekhn.khim.1  
geol.nauk. no.3:58-62 '62. (MIRA 16:5)

1. Gosudarstvennyy institut prikladnoy khimii i Institut khimii  
AN Turkmenskoy SSR.

(Iodine) (Hydrolysis)

ZALKIND, G.R.; YAVORSKIY, S.I.

Effect of organic impurities on the oxidation regularities  
of iodine ion with chlorine and hypochlorite in natural waters.  
Izv. AN Turk.SSR. Ser. fiz.-tekh., khim. i geol. nauk no.2:39--  
43 '63. (MIRA 17:8)

1. Institut khimii AN Turkmenstoy SSR.

YAVORSKIY, V.

Rational system for the chemical deaeration of feed-water.  
Sakh.prom.35 no.3:50-51 Mr '61. (MIRA 14:3)

1. Lannovskiy sakharnyy zavod.  
(Feed water)

*YAVORSKIY, V. A.*

AID P - 876

Subject : USSR/Engineering

Card 1/1 Pub. 29 - 9/23

Author : Yavorskiy, V. A., Eng.

Title : Installation of water jets into the jet condensers of steam engines

Periodical : Energetik, 10, 14-16, 0 1954

Abstract : At one of the flax-mills, the two-cylinder, double-expansion steam engine was working unsatisfactorily. The author briefly describes the repair of the jet condenser. Two drawings.

Institution : Not given

Submitted : No date

YAVORSKIY, V.G.

System of the regulation and simultaneous indication of the water level in a pressurized tank designed by the Heat and Electric Power Plant. Sakh.prom. 35 no.4:46 Ap '61. (MIRA 14:3)

1. Lannovskiy sakharney zavod.  
(Lannaya--Sugar industry--Equipment and Supplies)  
(Liquid level indicators)  
(Feed-water regulation)



YAVORSKIY, V.G.

Improvement in the network for chemical deaeration of feed water  
using sodium sulfide. Energetik 8 no.9:10-11 S '60. (MIRA 14:9)  
(Feed-water purification)

YAVORSKIY, V.G.

Wet storage of salt for chemical water purification. Sakh.prom.  
35[i.e. 36] no.2:50-51 F '62. (MIRA 15:4)

1. Lannovskiy sakharney kombinat.  
(Sewage--Purification)

ZHUKOV-VEREZHNIKOV, N.N.; Mayskiy, I.N.; YAZDOVSKIY, V.I.; PEKHOV, A.P.;  
GYURDZHIAN, A.A.; RYBAKOV, N.I.; ANTIPOV, V.V.

Microbiological and cytological studies in spaceships. Probl.  
ksom.biol. 2:140-148 '62. (MIRA 16:4)  
(SPACE BIOLOGY)

YAZDOVSKIY, V.I.; KAS'YAN, I.I.; KOPANEV, V.I.

Physiological responses of astronauts to overloads and  
weightlessness. Izv. AN SSSR Ser. biol. 29 no.1:12-31 Ja-F'64  
(MIRA 17:3)

1. Institute of Normal and Pathological Physiology, Academy  
of Sciences of the U.S.S.R., Moscow.

YAZDOVSKIY, V.I.; ALTUKHOV, G.Y.; BELAY, V.Ye.; YEGOROV, A.D.; KOPANEV.V.I.

Neuroemotional stress of astronauts in space flight. Izv. AN  
SSSR Ser. biol. no.2:306-311 Mr-Apr'64 (MIRA 17:3)

1ST AND 2ND CROSS										3RD AND 4TH CROSS									
PROCESSES AND PROPERTIES INDEX																			
YAVORSKIY, V.I.																			
21																			
<p>New developments in the geology of the Kuznetsk basin. V. Yavorshil. Khim. Tverdego Topliva 2, No. 7, 3 (1957). The Kuznetsk deposit contains coals from bituminous to hard coal. Ash content is 4-8%, S 0.3-0.7% and heating value 7000-8000 calories. A coal deposit of the sapromysitic type was discovered recently in the above district. On low-temp. carbonization this material yields 40% of tar, which contains 20-35% of a gasoline fraction. A. A. Borshilinsk</p>																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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YAVORSKIY, V.I.

ca

2/

Coals for the Kemerovsk coal-distilling plant. A. A. P.  
Yavorshil and S. V. Kunipin. Khim. Tverdogo Topliva  
7, 5-7(1961).—Chem. and petrographic analyses are  
given for some coals of Western Siberia. A. A. P.

ASH-STA DETALLURGICAL LITERATURE CLASSIFICATION

YAVORSKIY, V. I.

Iavorskii, V. I. and Shatilov, S. A. "Materials of Seismic Investigations in the Kuzbas."  
Gornyi Jurnal, Moscow-Leningrad, NO: 11, 1936, pp. 47-51.



YAVORSKIY V. I.

USER/Mines and Mining

Mar 1946

Coal

Geological Prospecting

"Kansk-Achinsk Igneite Basin," V. I. Yavorskiy,  
Laureate of Stalin Prize, 5<sup>th</sup> pp

"Razvedka Nedr" No 2

Gives geographic lay of basin with chart showing various regions and some of the mines (1944). Briefly discusses development of this region. At present, 23 known deposits in this general area. Briefly describes in detail the Itatsk, Mezarovsk Sobolev, Barodin, and Verkhino-Rybinsk deposits. Suggests that some of best contributions that could be made for effi-

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49773

USER/Mines and Mining (Contd)

Mar 1946

cient development of this deposit is compilation of geological map RF 1:200,000. He hopes that this may be done in very near future.

LC

49773

YAVORSKIY, V. I.

USSR/Geology  
Rock Formation

Nov 1947

"Krasnoyarsk Gravel of the Kuznets Basin," V. I. Yavorskiy, P. F. Li, All-Union Geological Institute, Leningrad, 4 pp

"Dok Ak Nauk" Vol LVIII, No. 4

Results of observations conducted in 1946 on the origin and formations of the Krasnoyarsk gravel of the Kuznets basin. Authors were able to determine three distinct types of gravel, as well as three distinct types of conglomerate. Submitted by Academician D. V. Malivkin, 23 April 1947.

PA 38748

YAVORSKIY, V.I.

Trudy Inst.geol.nauk no.90:175-184 '47.  
(Kuznetsk Basin--Coal geology)

(MLBA 9:11)

YAVORSKIY, V.I.

Significance of Devonian Stromatoporella in stratigraphy. Vop.  
paleont. 1:243-263 '50. (MLRA 9:5)  
(Corals, Fossil)

YAVORSKIY, V.I.; KULIKOV, M.V., redaktor; GUROVA, O.A., tekhnicheskiy redaktor; OVCHINNIKOVA, S.V., redaktor.

[Stromatoporoidea of the Soviet Union] Stromatoporoidea Sovetskogo Soiusa. Part 1. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane neдр, 1955. 172p. (Leningrad. Vsesoiuznyi geologicheskii institut. Trudy, vol.8)

- - [Plates depicting Stromatoporoidea of the Soviet Union] Tablitsy izobrazhenii Stromatoporoidea Sovetskogo Soiusa. Supplement to Part 1. 89 plates. (MLRA 9:10)

(Stromatoporoidea)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 24 (USSR) 15-1957-3-2682

AUTHOR: Yavorskiy, V. I.

TITLE: The Stromatoporoidea of the Soviet Union (Stromatoporoidea Sovetskogo Soyuza)

PERIODICAL: Tr. Vses. n-i, geol. in-ta, 1955, Nr 8, 173 pp

ABSTRACT: The author describes 195 species: 12 from the ordovician (8 of them new), 60 from the Upper Silurian (44 new), 18 from the Lower Devonian (16 new), 88 from the Middle Devonian (68 new), 14 from the Upper Devonian (12 new), 2 from the Lower Carboniferous (both new), and 1 from the Upper Jurassic. The method of studying them is described. The forms are characterized by coenostea, laminae, latilaminae, astrorhizae, and other morphological features of stromatoporoids. The classification of stromatoporoids by Nicholson (1886-1892) is given, with some corrections in the distribution of genera by families. The presence of zooidal tubes on milleporoid

Card 1/2

15-1957-3-2682

The Stromatoporoidea of the Soviet Union (Cont.)

stromatoporoids was confirmed. It was ascertained that the form and size of stromatoporoid pillars depend greatly on the environment in which the animal lived. Data is cited on the commensalism of the stromatoporoids. In particular, the camerate tubes of the coenosteum were studied in detail. In this particular case, the structure of the coenosteum had not been destroyed, a fact that points to the stability of the symbiosis--co-dwelling organisms fully adapted to one another. A symbiosis between Stromatoporoidea and Syringopora was most frequently observed. The stromatoporoids lived in an open sea, in shallow water near the shore line. They grew most abundantly in the environment of limestone facies. The age of series, within the time limits of a stage, may be determined by stromatoporoids. In rare cases the determination of formational units within a stage may be made. The paper contains 89 tables and a bibliography with 82 references.

Card 2/2

I. I. Ch.

YAVORSKIY, Vasilii Ivanovich

[Leonid Ivanovich Lutugin and his methods of geological research] Leonid Ivanovich Lutugin i ego metodika geologicheskikh issledovanii. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1956. 69 p. (MIRA 14:3)  
(Lutugin, Leonid Ivanovich, 1864-1915)  
(Geology)



LUTUGIN, Leonid Ivanovich; SHVETS, I.T., redaktor; GAFYEV, A.A., doktor geologo-mineralogicheskikh nauk, professor, redaktor; NOVIK, Ye.O., redaktor; YAVORSKIY, V.I., doktor geologo-mineralogicheskikh nauk, professor, redaktor; ANISIMOV, Yu. A., kandidat tekhnicheskikh nauk, redaktor; KAZANTSEV, P.A., redaktor; BAKHLINA, N.P., tekhnicheskiy redaktor.

[Selected works on the geology of the Donets Basin] Izbrannye trudy po geologii Donetskogo basseina. Otv.red.I.T.Shvets. Kiev, Izd-vo Akademii nauk USSR, 1956. 216 p. (MLRA 9:5)

1.Akademik AN USSR (for Shvets).2.Chlen-korrespondent AN USSR (for Novik)  
(Donets Basin--Geology)

~~YAVORSKIY, V.I.~~

ANDREYEVA, Ye.M.; MANDEL'SHTAM, M.O.; RADCHENKO, G.P.; ROTAY, A.P.;  
KHALFIN, L.L.; YAVORSKIY, V.I.; OVCHINNIKOVA, S.V., redaktor  
izdatel'stva; GUROVA, O.A., tekhnicheskij redaktor

[Atlas of principal forms of fossil fauna and flora of the Permian  
deposits in the Kuznetsk Basin] Atlas rukovodiashchikh form izko-  
paemykh fauny i flory-permskikh otlozhenii Kuznetskogo basseina.  
Pod obshchei red. V.I. Iavorskogo. Moskva, Gos. nauchno-tekhn. izd-vo  
lit-ry po geol. i okhrane neдр, 1956. 409 p. (MIRA 10:2)  
(Kuznetsk Basin--Paleontology, Stratigraphic)

71001-87-03, V.1  
NEKHOROSHEV, V.P.; JAVORSKIY, V.I., redaktor; OVCHINNIKOVA, S.V.,  
redaktor izdatel'stva; GUROVA, O.A., tekhnicheskiiy redaktor.

[Lower Carboniferous Bryozoa of the Altai and Siberia]  
Nizhnekamennougol'nye mshanki Altaia i Sibiri. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр, 1956.  
418 p. (Leningrad, Vsesoiuznyi geologicheskii institut. Trudy,  
vol. 13). (MLRA 9:12)

(Altai Mountains--Polyzoa, Fossil)  
(Siberia--Polyzoa, Fossil)

YAVOYSKIY, V.I.

137-1958-3-4820

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 53 (USSR)

AUTHOR: Yavoytskiy, V.I.

TITLE: Gases and Nonmetallic Inclusions in an Ingot Produced by Continuous Casting (Gazy i nemetallicheskiye vklyucheniya v slitke nepreryvnoy razlivki)

PERIODICAL: V sb.: Nepreryvnaya razlivka stali. Moscow, AN SSSR, 1956, pp 199-211

ABSTRACT: In comparison with ingots cast by the usual method, a steel ingot produced by continuous casting exhibits a greater degree of chemical homogeneity, both longitudinally and in cross section. Thus, the variation in the content of C, S, and P at various points on the cross section seldom exceeds the margins of error permissible in a chemical analysis; the longitudinal variation in composition of metal is explained primarily by the reactions occurring in the ladle during the casting process, rather than by the liquation of the additives. In the process of continuous casting, gases and nonmetallic inclusions do not have enough time to float up and escape from the ingot; with the increased rate of crystallization they become fixed within the liquid metal

Card 1/2

137-1958-3-4820

Gases and Nonmetallic Inclusions in an Ingot Produced by Continuous Casting

at their former random positions within the liquid phase. Their total content may not be any greater than in a standard ingot, but they are more uniformly distributed over the cross section; this reduces the danger of possible defects attributable to the contamination of steel with gases and impurities. The author suggests that the smelting technology of steel intended for continuous casting may have to be altered in order to improve the quality of metal. It is essential that special measures be taken during the casting, in order to reduce the contamination of metal with nonmetallic inclusions and gases (employment of high-quality refractories, gas shielding, and an efficient design of the casting system).

N. N.

Card 2/2

YAVORSKIY, V.I.

"Stratigraphy of coal-bearing formations in the Kuznetsk Basin," an article by I.I. Molchanov, L.L. Khalfin, (1954 chart). Reviewed by V.I. Iavorskii. Inform.sbor.VSEGEI no.3:140-144 '56. (MIRA 10:1)  
(Kuznetsk Basin--Coal geology)  
(Molchanov, I.I.) (Khalfin, L.L.)

YAVORSKIY, V.I.

Modern concept of the geology and coal formations of the  
Kuznetsk Basin. Trudy Lab.geol.ugl. no.6:518-525 '56.

(MIRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii  
institut.

(Kuznetsk Basin--Coal geology)

YAVORSKIY, V.I.

Study of the Kuznetsk Basin geology in the sixth five-year plan.  
Razved.i okh.nedr 22 no.10:11-14 0 '56. (MLRA 9:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.  
(Kuznetsk Basin--Geology)



YAVORSKIY, Vasilii Ivanovich; RADCHENKO, G.P., red.; POPOV, N.D., tekhn. red.

[Conditions of formation of coal-bearing deposits in the Kuznetsk Basin and their tectonics] Usloviia formirovaniia uglenosnykh otlozhenii Kuznetskogo basseina i ikh tektonika. Moskva, Gos. nauchno-tekhn. ind-vo lit-ry po geol. i okhrane neдр. 1957. p. 73 (Leningrad. Vsesoyuznyy geologicheskii institut. Trudy, vol.19). (MIRA 11:1)  
(Kuznetsk Basin--Coal geology)

~~YAVORSKIY, V.~~  
YAVORSKIY, Vasilii Ivanovich; KOTLUKOV, V.A. red.; OVCHINNIKOVA, S.V., red.  
izd-va; KRYNOCHKINA, D.V., tekhn. red.

[Stromatoporoids of the Soviet Union. Part 2] Stromatoporoides  
Sovetskogo Soiuza. Leningrad, Gos. nauchno-tekhn. izd-vo lit-ry  
po geol. i okhrane nedr, 1957. 164 p. (Leningrad, Vsesoiuznyi  
geologicheskii institut. Trudy, vol. 18). (MIRA 10:11)  
(Stromatoporoides)

Yavorskiy, V.I.

Instructions on the organization and execution of geological mapping  
on 1:50000 and 1:25000 scales. Razved. i okh. nadr 23 no.7:60-62 J1  
'57. (MLRA 10:11)

1. Vsesoyuznyy geologicheskii nauchno-issledovatel'skiy institut.  
(Geological surveys)

YAVORSKIY, V.I.

A new species of lower Carboniferous stromatoporoids. Paleont.  
zhur. no.4:132-133 '60. (MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.  
(Stolberg region, Germany—Hydrozoa, Fossil)

YAVORSKIY, V. I.

New data on the Triassic overlying Permian sediments in the Kuznetsk Basin. Razved. i okh. nedr 26 no.11:3-5 N '60. (MIRA 13:12)

1. Vsesoyuznyy geologicheskii nauchno-issledovatel'skiy institut.  
(Kuznetsk Basin--Coal geology)

YAVORSKIY, V.I.

In memory of a friend. Zap.Vses.min.ob-va 89 no.2:253-256 '60.  
(MIRA 13:7)  
(Ivanov, Aleksei Nikolaevich, 1869-1958)

YAVORSKIY, Vasilii Ivanovich; ABKEVICH, P.L., red.izd-va; GUROVA, O.A.,  
tekhn.red.

[Stromatoporoidea of the Soviet Union] Stromatoporoidea Sovetskogo  
Soiuza. Part 3. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po  
geol. i okhrane neдр, 1961. 62 p. (Leningrad. Vsesoiuznyi  
geologicheskii institut. Trudy, vol. 44). (MIRA 15:3)  
(Stromatoporoidea)

AMMOSEV, I.I., red.; BURTSEV, D.N., red.; GORYUNOV, S.V., red.;  
 GUSEV, A.I., red.; KOROTKOV, G.V., red.; KOTLUKOV, V.A.,  
 red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.;  
 MOLCHANOV, I.I., red.; NEKIPELOV, V.Ye., red.; PONOMAREV,  
 T.N., red.; POPOV, V.P., red.; PROKHOROV, S.P., red.;  
 SKROBOV, S.A., red.; TYZHNOV, A.V., red.; SHABAROV, N.V.,  
 red.; YAVORSKIY, V.I., red.; BOBRYSEV, A.T., red. toma;  
 VINOGRADOV, B.G., red. toma; VOLKOV, K.Yu., zam. red. toma;  
 LUGOVOY, G.I., zam. red. toma; OGARKOV, V.S., red. toma;  
 SIMONOV, A.V., red. toma; IZRAILEVA, G.A., red. izd-va;  
 IVANOVA, A.G., tekhn. red.

[Geology of coal and combustible shale deposits in the  
 U.S.S.R.] Geologiya mestorozhdenii uгля i goriuchikh slan-  
 tsev SSSR. Glav. red. I.I. Ammosov i dr. Moskva, Gosgeoltekh-  
 izdat. Vol. 2. [Moscow Basin and other coal deposits in  
 central and eastern provinces of the European part of the  
 U.S.S.R.] Podmoskovnyi bassein i drugie mestorozhdenia uгля  
 tsentral'nykh i vostochnykh oblastei Evropeiskoi chasti  
 RSFSR. 1962. 569 p. maps. (MIRA 15:9)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany  
 neдр.

(Coal geology)



YAVORSKIY, Vasiliy Ivanovich; MOKRINSKIY, V.V., red.; VLASOVA, L.V.,  
red.izd-va; SHMAKOVA, T.M., tekhn.red.

[Studies in the history of geological investigation in the  
Kuznetsk Basin] Ocherk po istorii geologicheskogo issledovaniia  
Kuznetskogo basseina. Moskva, Gos. nauchn.-tekhn. Izd-vo  
lit-ry po geologii i okhane neдр. 1962. 143 p. (Leningrad.  
Vsesoiuznyi geologicheskii institut. Trudy, vol.69).  
(MIRA 15:11)

(Kuznetsk Basin--Geology)

YAVORSKIY, V.I.

Some results of the study of Stromatoporoidea in the U.S.S.R.  
Paleont.zhur. no.1:19-30 '62. (MIRA 15:3)  
(Coelenterata, Fossil)

YAVORSKIY, Vasilii Ivanovich; ABKEVICH, P.L., red.izd-va; GUBOVA, O.A.,  
tekh.n.red.

[Stromatoporoidea of the Soviet Union] Stromatoporoidea Sovetskogo  
Soiuza. Moskva, Gosgeoltekhizdat, 1963. 159 p. (Leningrad.  
Vsesoiuznyi geologicheskii institut, Trudy, vol.87). (MIRA 16:7)  
(Stromatoporoidea)

YAVORSKIY, V.I.; ANDREYEVA, Ye.M.; GOLUBEV, S.A.

New materials on the stratigraphy of the Kuznetsk Basin. Soy. geol.  
6 no.4:126-128 Ap '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.  
(Kuznetsk Basin--Geology, Stratigraphic)

VOLKOVA, I.B.; NALIVKIN, D.V.; SLATVINSKAYA, Ye.A.; BOGOMAZOV, V.M.;  
 GAVRILOVA, O.I.; GUREVICH, A.B.; MUDROV, A.M.; NIKOL'SKIY, V.M.;  
 OSHURKOVA, M.V.; PETRENKO, A.A.; POGREBITSKIY, Ye.O.; RITENBERG,  
 M.I.; BOCHKOVSKIY, F.A.; KIM, N.G.; LUSHCHIKHIN, G.M.; LYUBER,  
 A.A.; MAKEDONTSOV, A.V.; SENDERZON, E.M.; SINITSYN, V.M.; SHORIN,  
 V.P.; BELYANKIN, L.F.; VAL'TS, I.E.; VLASOV, V.M.; ISHINA, T.A.;  
 KONIVETS, V.I.; MARKOVICH, Ye.M.; MOKRINSKIY, V.V.; PROSVIRYAKOVA,  
 Z.P.; RADCHENKO, O.A.; SEMERIKOV, A.A.; FADDEYEVA, Z.I.; BUTOVA,  
 Ye.P.; VERBITSKAYA, Z.I.; DZENS-LITOVSKAYA, O.A.; DUBAR', G.P.;  
 IVANOV, N.V.; KARPOV, N.F.; KOLESNIKOV, Ch.M.; NEFED'YEV, L.P.;  
 POPOV, G.G.; SHTEMPEL', B.M.; KIRYUKOV, V.V.; LAVROV, V.V.;  
 SAL'NIKOV, B.A.; MONAKHOVA, L.P.[deceased]; MURATOV, M.V.;  
 GORSKIY, I.I., glav. red.; GUSEV, A.I., red.; MOLCHANOV, I.I.,  
 red.; TYZHN OV, A.V., red.; SHABAROV, N.V., red.; YAVORSKIY, V.I.,  
 red.; REYKHERT, L.A., red. izd-va; ZAMARAYEVA, R.A., tekhn. red

[Atlas of maps of coal deposits of the U.S.S.R.] Atlas kart ugle-  
 nakopleniia na territorii SSSR. Glav. red. I.I. Gorski. Zam.  
 glav. red. V.V. Mokrinski. Chleny red. kollegii: F.A. Bochkovski  
 i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 17 p.  
 (MIRA 16:3)

1. Akademiya nauk SSSR. Laboratoriya geologii uglya. 2. Chlen-  
 korrespondent Akademii nauk SSSR (for Muratov).  
 (Coal geology—Maps)

SKROBOV, S.A., glav. red.; TYZHNOV, A.V., zam. glav. red.; SHABAROV, N.V., zam. glav. red.; AMOSOV, I.I., redaktor; red.; BURTSEV, D.N., red.; IVANOV, G.A., red.; KOROTKOV, G.V., red.; KOTLUKOV, V.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., redaktor; MOLCHANOV, I.I., redaktor; NEKIPELOV, V.Ye., red.; PONOMAREV, T.N., red.; POPOV, V.S., red.; PROKHOROV, S.P., red.; YAVORSKIY, V.I., red.; LAGUTINA, V.V., red. toma; LEVENSHTeyN, M.L., red. toma; SHIROKOV, A.Z., red. toma; IZRAILEVA, G.A., red. izd-va; KROTOVA, I.Ye., red. izd-va; IVANOVA, A.G., tekhn. red.

[Geology of coal and combustible shale in the U.S.S.R.] Geologiya mestorozhdenii uglia i goriuchikh slantsev SSSR. Glav. red. I.I. Amosov i dr. Moskva, Gosgeoltekhizdat. Vol.1. [Coal basins and deposits in the south of the European part of the U.S.S.S.; Donets Basin, Dnieper Basin, Lvov-Volyn' Basin, deposits of the western provinces of Moldavia and the Ukraine, White Russia, Transcaucasia and the Northern Caucasus] Ugol'nye basseiny i mestorozhdenia iuga Evropeiskoi chasti SSSR; Donetskii bassein, Dneprovskii bassein, L'vovsko-Volynskii bassein, mestorozhdenia zapadnykh oblastei Ukrainy i Moldavii, Belorussii, Severnogo Kavkaza i Zakavkaz'ia. 1963. 1210 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskii komitet.

KRYAKOVSKIY, Yu.V.; RUBENCHIK, Yu.I.; TYURIN, Ye.I.; YAVOYSKIY, V.I.

Mechanical properties and the character of nonmetallic inclusions  
in alloyed structural steel with rare-earth metal additions.  
Metalloved. i term. obr. met. no.8:11-18 Ag '63. (MIRA 16:10)

1. Moskovskiy institut stali i splavov.

YAVOYSKIY, V.I.; BEKTURSUNOV, Sh.Sh.; DUDKO, D.A.

Effect of electric slag heating and feed maintenance on the distribution of nitrogen, oxygen and nonmetallic inclusions in steel ingots. Izv. vys. ucheb. zav.; chern. met. 6 no.7:47-51 '63. (MIRA 16:9)

1. Moskovskiy institut stali i splavov.  
(Steel ingots—Testing) (Gases in metals) (Steel—Inclusions)



YAVORSKIY, V.I.

On the centenary of L.I. Lutugin's birth. Sov. geol. 7  
no.3:136-138 Mr '64. (MIRA 17:10)

VVEDENSKIY, V. S.; RUBENCHIK, Yu. I.; SEMENCHENKO, G. V.; KRYAKOVSKIY,  
Yu. V.; YAVOYSKIY, V. I.

Improved methods for the final deoxidation of 10Kh16N2M6 and  
40KhNMA steels. Izv. vys.ucheb.zav.; chern.met.7 no. 5:40-45  
'64. (MIRA 17:5)

1. Moskovskiy institut stali i splavov i Izhevskiy metallurgicheskiy zavod.

DRAGOMIR, I.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Investigating the properties of iron-phosphorus melts. Izv.  
vys. ucheb. zav.; Chern. met. 7 no.11:50-52 '64. (MIRA 17:12)

1. Moskovskiy institut stali i splavov.

LUZGIN, V.P.; FROLOV, A.G.; VISHKAREV, A.F.; YAVOYSKIY, V.I.;  
VINOGRADOVA, L.V.; RUTMAN, D.S.

Character of the conductivity of  $MgO$  and  $Al_2O_3$ . Ogneupory  
30 no.4:42-44 '65. (MIRA 18:6)

1. Moskovskiy institut stali i splavov (for Luzgin, Frolov,  
Vishkarev, Yavoyskiy). 2. Podol'skiy zavod ogneupornykh  
izdeliy (for Vinogradova, Rutman).

KAMENSKIY, Yu.M.; SUKHOTIN, B.N.; YAVOYSKIY, V.I.

Using single-phase transformers in electric slag remelting installations. Avtom. svar. 18 no.10:69-71 O '65.

(MIRA 18:12)

1. Moskovskiy zavod "Serp i molot" (for Kamenskiy, Sukhotin).
2. Moskovskiy institut stali i splavov (for Yavoyskiy).

ACC FIR: AP5026298

SUB CODE: UR/0125/65/000/010/0069/0071

AUTHOR: Kamenskiy, Yu. M. (Engineer); Sukhotin, B. N. (Engineer); Yavovskiy, V. I.  
(Doctor of technical sciences)

ORG: [Kamenskiy, Sukhotin] Moscow Serp i Molot Plant (Moskovskiy zavod "Serp i Molot"); [Yavovskiy] Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Use of single-phase transformers in electroslag melting installations

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 69-71

TOPIC TAGS: electric transformer, electroslag melting, voltage regulation, slag /  
EOMN single phase transformer

ABSTRACT: The recently developed EOMN-2000/10 single-phase transformers used for the electroslag refining of metals are superior to the three-phase transformers previously employed for this purpose. They have a larger number of voltage stages which, moreover, can be switched under load. In this connection, the authors present the results of an experimental investigation which shows that during the melting the voltage in the slag bath tends to increase somewhat (8-10 v), which leads to a corresponding increase in power requirement and in the temperature of slag and metal, as well as a

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UDC..621.791.9:621.314.2

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ACC NR: AP5026298

rise in melting rate, which results in an increase in the depth of the molten pool with all the adverse consequences that this entails. To compensate for the rise in voltage, and also for instantaneous fluctuations in power-system voltage, the transformer stages are periodically switched at the optimal time instant during the melting, so as to maintain a fairly constant power level. This is accomplished with the aid of an efficient current regulator. As a corollary, a basic requirement for an effective electroslag melting: stability of the electric regime, must be redefined. Now this stability does not mean a fixed level of such parameters as current intensity, voltage or electrode feeding rate, throughout the melting process. What is necessary rather is a continuous, flexible control of the variation in these parameters during the melting process. The ingots thus produced are of a more uniform quality. Orig. art. has: 4 figures, 1 table.

SUB CODE: 09, 11/ SUBM DATE: 28Dec64/ ORIG REF: 001/ OTH REF: 000

Card

2/2

YAVORSKIY, V.M., inzh.-mekhanik (stantsiya Shepetovka I, Yugo-Zapadnoy dorogi).

Proposals made by Shepetovka trackworkers. Put' i put. khoz.  
no.6:27 Je '59. (MIRA 12:10)  
(Shepetovka--Railroads--Equipment and supplies)



L 2967-66 EMT(d)/EMP(k)/EMP(l) JKT  
ACCESSION NR: AP5026357

UR/0105/64/000/009/0093/0094

AUTHOR: Balyev, V. K.; Grudinskiy, P. G.; Izumov, N. M.; Kulebskin, V. S.;  
Mirolyubov, N. N.; Sotakov, B. S.; Tsirlin, A. D.; Alekseyev, A. Ye.;  
Bogoroditskiy, N. P.; Berger, A. Ya.; Yavorskiy, V. N.; Nasledov, D. N.;  
Vasil'yev, D. V.

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B

TITLE: Nikolay Nikolayevich Lutsenko (Obituary)

SOURCE: Elektrichestvo, no. 9, 1964, 93-94

TOPIC TAGS: electric engineering personnel

ABSTRACT: Doctor of Technical Sciences, Major General in the Technical Engineering Service, Professor N. N. Lutsenko died in May of this year after a long and serious illness. He graduated from the Moscow Higher Technical Academy in 1914 and was closely associated with his specialty of electrical engineering till the end of his life. He spent the first years of his practical activity at the Academy working in the electrical engineering laboratory of K. A. Krug. After that he began his career in the Soviet Army as a lowly laboratory assistant in the radiotechnical laboratory and worked his way up over thirty years to be head of the

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ACCESSION NR: AP5026357

Department of Electrical and Military Engineering. He wrote several books: "Alternating Currents," "The Theory of Alternating Currents," "Course in General Electrical Engineering," "Radio Engineering" and, together with his co-workers, problem books on "A Course in Alternating Currents" and "The Physical Principles of Electrical Engineering." He set up a number of special courses (military application of electric power, military portable electric power stations, electric equipment for armies, electrification of military engineering works, etc.) and also participated in many engineering projects with the Soviet Army. He has written many textbooks, monographs and articles on the theoretical and applied divisions of military electrical engineering. These include "Electric Circuits" and "Fundamentals for the Design and Planning of Mobile Electric Stations." Many of N. N. Lutsenko's students are working in sections of the Soviet Army, in scientific institutes and in colleges, and in industry. These students are continuing the work of their teacher, the founder of Soviet military electrical engineering. He received his professorship in 1938 and his doctorate in 1949. He has received the Order of Lenin, three "Red Banners," the Order of the "Red Star" and many medals. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

NO REF SCW: 000

Card 2/2 *del*

ENCL: 00

OTHER: 000

SUB.CODES: EE

JPRS

YAVORSKIY, V. N.

PLATE I FOR EXPLANATION 509/4556

Сорешбањану по теорији инваријантности и јуре припаднују у еријомичности  
најбољих. Ејер, 1956

Teoriya izmereniy i yey primeneniya v avtomaticheskikh ustroystvakh; teoriya izmereniy (Theory of Measurements and Its Applications to Automatic Devices); Izvestiya Akad. Nauk SSSR, Tekhn. Nauk, 1959, No. 10, 361 p. 36 p. of illustrations of the Conference Oct. 16-20, 1959. Moscow, 1959. 361 p. 36 p. of copies printed not given.

Sponsoring Agency: Academy nauk USSR. Contact: V.I. Kabanov, Institute of Chemical Sciences, A.S. Nakhimovskii, Doctor of Technical Sciences, P.O. Box 78, Leningrad, U.S.S.R., 190000. Candidates of Technical Sciences, P.I. Kuznetsov, Doctor of Physics and Mathematics, A.Y. Kublov, Doctor of Chemical Sciences, B.F. Petrov, Corresponding Member, Academy of Sciences U.S.S.R., T.J. Popov, Doctor of Technical Sciences, G.M. Malyar, Doctor of Technical Sciences, K.K. Efremov, Assistant, Academy of Sciences U.S.S.R., P.I. Chulyavsky, Candidate of Technical Sciences, and B.N. Chernyshev, Candidate of Physical Sciences, Tech. Ed., G.T. Erogorov.

**PURPOSE:** This collection of papers is intended for engineers and other specialists working in various fields of automation.

CONTENTS. The collection includes reports and papers presented at the Conference on the Theory of Invariance and its Applications to Automatic Devices, which was called by the Scientific Technological and Department of Technical Sciences and the Institute of Electrodynamics (Institute of Electrical Engineering) of the Academy of Sciences of the USSR and convened in Leningrad October 16 - 20, 1964. The papers presented are concerned with high-priority automatic control systems designed on the basis of compensating for the effects of disturbances of the disturbance in the system. The papers treat the analytical and mathematical foundations of such systems in invariant control systems and propose also numerical methods for designing and calculating invariant systems and problems connected with specific cases of practical applications of compensation in various automatic systems. On the basis of these reports it was established by the Conference that, by utilization of the conditions of compensation and the principle of invariance, it is possible to produce automatic systems and various arrangements which are more perfect from the viewpoint of quality of the regulation and control process, stability, simplicity of construction, and reliability of operation. The following members of the USSR Academy of Sciences took part in the conference as co-organizers of the conference: A.I. Izrael, A.G. Gerasimov, N.G. Kharin, O.M. Kopylovskiy, N.M. Gerasimov, I.A. Fedotkin, and P.I. Chumachenko. References accompany each article.

**Yusuf. Bulavcheky**

## Section C. Surveyors and Drivers

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19. Baskerville, T.A., and S.M. Peters. Calculation of Servo-Tracking Systems of Combined Control by the Method of Logarithmic Frequency Characteristics

## Discussion (speeches by)

257

W.L. Zetser  
T.M. Ivonchik

271 022

20. Invarnity, V.N. Calculation Methods for Precision Power-Compensated Invariant Servomotors.

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21. Ngorskiy, V.D., and B.I. Kolokolnikov. Combined Control Platform Stabilization Systems

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22. Konstruk. V.I. Corrective Servosystems  
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300

YAVORSKIY, Vasil'y Nikolayevich; BESSONOV, Aleksandr Andreyevich;  
KOROTAYEV, Aleksey Ivanovich; POTAPOV, Anatoliy  
Mikhaylovich; KERUSTALEVA, N.I., red.; GOROKHOVA, S.S.,  
tekhn. red.

[Design of invariant servo system drives] Proektirovanie  
invariantnykh slediashchikh privodov. [By] V.N.IAvorskii  
i dr. Moskva, Vysshaia shkola, 1963. 474 p.

(MIRA 17:3)